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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/758,816	01/16/2004	Michael W. Murphy	8540G-000233	6583
	7590 04/27/2007 CKEY & PIERCE, P.L.C.		EXAM	INER
P.O. BOX 828	·		YUAN, DAH WEI D	
BLOOMFIELD	O HILLS, MI 48303		ART UNIT PAPER NUMB	PAPER NUMBER
			1745	•
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	04/27/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)	1			
•	•			20			
Office Action Summary		10/758,816	MURPHY ET AL.				
		Examiner	Art Unit				
		Dah-Wei D. Yuan	1745				
Period fo	The MAILING DATE of this communication a or Reply	ppears on the cover sheet wi	ith the correspondence address	; <b></b>			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REF CHEVER IS LONGER, FROM THE MAILING nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period tre to reply within the set or extended period for reply will, by state reply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION 1.136(a). In no event, however, may a round will apply and will expire SIX (6) MON tute, cause the application to become AE	CATION.  eply be timely filed  ITHS from the mailing date of this communications  BANDONED (35 U.S.C. § 133).	•			
Status							
1)⊠	Responsive to communication(s) filed on 06	March 2007.					
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
3)[	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under	r <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.				
Disposit	ion of Claims						
4)⊠	Claim(s) 1-9 is/are pending in the application	n. ·					
	4a) Of the above claim(s) is/are withdo		,				
	Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1-9</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)[	Claim(s) are subject to restriction and	l/or election requirement.					
Applicat	ion Papers	•	•				
9)[]	The specification is objected to by the Exami	ner.					
•	The drawing(s) filed on is/are: a) ad		by the Examiner.				
•—	Applicant may not request that any objection to the			;			
	Replacement drawing sheet(s) including the corre	- · ·	• •	21(d).			
11)	The oath or declaration is objected to by the						
Priority (	under 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreion All b) Some * c) None of:	gn priority under 35 U.S.C. §	119(a)-(d) or (f).				
	1. Certified copies of the priority docume	nts have been received.					
	2. Certified copies of the priority docume		· · — —				
	3. Copies of the certified copies of the pr		received in this National Stage	Э			
* *	application from the International Bure	, ,,,					
* \$	See the attached detailed Office action for a li	st of the certified copies not	received.				
Attachmen							
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) S)/Mail Date				
3) 🔲 Infor	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date		nformal Patent Application				

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Art Unit: 1745

# <u>ULTRA SHORT HIGH PRESSURE GRADIENT FLOW PATH FLOW FIELD</u>

Examiner: Yuan

S.N. 10/758,816

Art Unit: 1745

April 23, 2007

## Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 6, 2007 has been entered. Claims 1,3,5,6 9 were amended.

2. The text of those sections of Title 35, U.S.C. code not included in this action can be found in the prior Office Action issued on May 11, 2006.

#### Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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5. The term "ultra short flow path" in claim 1 is a relative term which render the claims indefinite. The term "ultra short" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

## Claim Rejections - 35 USC § 102

6. The claim rejections under 35 U.S.C. 102(e) as anticipated by Morse et al. on claims 1-9 are withdrawn, because the independent claim 1 has been amended.

## Allowable Subject Matter

7. Claims 1-9 would be allowable if rewritten to overcome the rejection(s) under 35
U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims. Claims 1-9 would be allowable because the prior art does not disclose or suggest a fuel cell comprising a first planar manifold defined between a first gas-impermeable element and an active element, a plurality of spacers disposed within the first planar manifold, each of the plurality of the spacers and the first gas-impermeable element having an orifice formed therethrough, a second planar manifold defined between the first gas-impermeable element and a second gas-impermeable element in a subjacent relationship to the first planar manifold, wherein a flow path is established from the second planar manifold through the orifice over the active to the first planar manifold. The closest prior art of record, Moore et al., does not teach a first planar manifold defined between a first gas-impermeable element and

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stated in the claim.

an active element, a second planar manifold defined between the first gas-impermeable element and a second gas-impermeable element in a subjacent relationship to the first planar manifold as

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dah-Wei D. Yuan whose telephone number is (571) 272-1295. The examiner can normally be reached on Monday-Friday (8:00-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan, can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dah-Wei D. Yuan April 23, 2007

PRIMARY EXAMINER